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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,934	09/13/2005	Thomas Deck	40124/05001	3644
30636 EAV KADI IIN	7590 12/20/2007	EXAMINER		
FAY KAPLUN & MARCIN, LLP 150 BROADWAY, SUITE 702			DANG, HUNG Q	
NEW YORK, NY 10038			ART UNIT	PAPER NUMBER
			2612	
			MAIL DATE	DELIVERY MODE
			12/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		TH.			
,	Application No.	Applicant(s)			
0.571	10/534,934	DECK ET AL.			
Office Action Summary	Examiner	Art Unit			
	Hung Q. Dang	2612			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period or Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may will apply and will expire SIX (6) MO e, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>17 S</u>	eptember 2007.				
2a)⊠ This action is FINAL . 2b)□ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 47-69 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 47-69 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers		•			
9)☐ The specification is objected to by the Examine					
10)⊠ The drawing(s) filed on <u>13 May 2005</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Burea * See the attached detailed Office action for a list	is have been received. is have been received in rity documents have bee u (PCT Rule 17.2(a)).	Application No en received in this National Stage			
Attachment(s)	🗖 .				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application			

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DETAILED ACTION

1. This communication is in response to application's amendment dated 9/17/2007. The amendment of claims 47 and the cancellation of claims 1-46 have been entered.

Response to Arguments

2. Applicant's arguments filed on 9/17/2007 have been fully considered but they are not persuasive.

Regarding claim 47, based on the amended claim 47, the applicant argues that the Bennet reference does teach signal processing, after digitization by the A/D converter, before it is transmitted.

The examiner disagrees with the applicant. Even though, paragraph [0031] of the Bennet reference mentions about "...the digitized signal is processed...", however, it implies nothing more than just signal modulation so that signal transmission can be carried out. Signal modulation is not typically considered as signal processing.

Therefore, applicant's argument is not persuasive.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a

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whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 47-51, 53-56, 58 and 60-69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett JR et al. U.S. 2001/0028305.

Regarding claims 47, 65 and 66, Bennett JR et al. teaches a sensor unit, comprising:

A measured signal receiver (figure 3, units 60 and 60');

an A/D converter (Figure 3, unit 64) digitizing a measured signal;

a transceiver device (Figure 3, unit 24) wirelessly transmitting data to an environmental device; and

a processor (Figure 3, unit 68) activating the measured signal receiver, the A/D converter, and the transceiver device, the processor digitizing the measured signal and subsequently transmitting without signal processing after the A/D conversion, via the transceiver device, to the environmental device (Figure 1, unit 28), the environmental device being coupled to an analysis unit (Figure 1, unit 30) which converts the measured signal into a measured value (paragraph [0022]). (Also, see the above response to argument for explanation of the claimed limitation "... without signal processing");

Even though, Bennett JR et al. does not specifically discloses a measured signal receiver registering (or recording) a measured signal, however, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a measured signal receiver for registering or recording a measured signal to the sensor

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unit disclosed by Bennett et al. so that measured data can be recorded and stored up for possible future re-transmission.

Regarding claim 48, the input/output components claimed in claim 48 are inherent based on the rejection of claim 47 stated above (see figure 3).

Regarding claim 49, the sensor unit disclosed by Bennett JR et al. is also a fill level sensor (paragraph [0022]).

Regarding claims 54-55 and 60, Bennett JR et al. teaches coupling the environmental device (Figure 1, unit 28) with a process control system (Figure 1, unit 30; and paragraph [0023]), without specifically indicating wire or wireless coupling.

The examiner takes official notice that wire/wireless coupling/connecting two devices have been commonly known and equipped in many communication systems. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide wire or wireless coupling or connection between the environmental device and the process control system disclosed by Bennett JR et al.

Regarding claims 58, 62 and 64, even though, Bennett JR et al. only disclose one environmental device including a control and a display unit (see paragraph [0022]), however, it would have been obvious to one of ordinary skill in the art to further provide another environmental device so that the sensed data can be transmitted to another location/user for data processing.

Regarding claims 53, 56 and 61, the examiner takes official notice that bidirectional communication between any two devices has been conventionally equipped in many control/communication systems for data transmission or control

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operations. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide bidirectional communications between any of the two devices disclosed by Bennett JR et al.

Claim 63 is rejected for the same reasons as the rejection of claim 52.

Claims 67 and 69 are rejected for similar reasons as the rejection of claim 47. Even though, Bennett JR et al. does not specifically disclose a plurality of sensor units, however, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a plurality of sensor units (similar as the one claimed in claim 47) to the system disclosed by Bennett JR et al. so that a plurality of different parameters can be sensed and transmitted to a remote location for processing.

Claim 68 is rejected for the same reasons as the rejection of claim 58.

Regarding claims 50-51, the examiner takes official notice that such claimed signals have been commonly known and applied in monitoring systems. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide receiving any of the claimed signal depending on the desired application.

5. Claims 52, 57 and 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett JR et al. U.S. 2001/0028305 in view of Soliman U.S. Pub 2003/0174067.

Regarding claim 52, Bennett JR et al. teaches the sensor unit of claim 47.

However, Bennett JR et al. does not specifically teach the wireless transmission of the data between the sensor unit and the environmental device using WLAN.

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Soliman, in the same field of endeavor, discloses a wireless telemetry network, wherein a WLAN is employed between device-device transmission.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide WLAN for wireless transmission between the sensor unit and the environmental device disclosed by Bennett JR et al., as evidenced by Soliman, so that sensed data can be wirelessly transmitted to said environmental device.

Regarding claims 57 and 59, Bennett JR et al. teaches the sensor unit of claim 58. However, Bennett JR et al. does not teach said environmental device being a mobile device.

Soliman, in the same field of endeavor, teaches a wireless environmental telemetry network, wherein the environmental device is a mobile device (Figure 1, unit 140) so that said mobile device can be carried around.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the environmental device disclosed by Bennett JR et al. to be a mobile device, as evidenced by Soliman, so that said environmental device can be carried around by the operator.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Q. Dang whose telephone number is (571) 272-3069. The examiner can normally be reached on 9:30AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Zimmerman can be reached on (571) 272-3059. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hung Q Dang 12/10/2007 H.D.

PATENT EXAMINER

BRIAN ZIMMERMAN